

DISC	
PLAYING TIME:	74 MINUTES, 33 SECONDS MAXIMUM
ROTATION:	COUNTER-CLOCKWISE WHEN VIEWED FROM READOUT SURFACE
ROTATIONAL SPEED:	1.2-1.4 m/sec.
TRACK PITCH:	1.6 μm
DIAMETER:	120 mm
THICKNESS:	1.2 mm
CENTER HOLE DIAMETER:	15 mm
RECORDING AREA:	46 mm-117 mm
SIGNAL AREA:	50mm-116 mm
MATERIAL:	ANY TRANSPARENT MATERIAL WITH 1.55 REFRACTION INDEX, SUCH AS POLYCARBONATE
MINIMUM PIT LENGTH:	0.833 μm (1.2 m/sec.) to 0.972 mm (1.4 m/sec.)
MAXIMUM PIT LENGTH:	3.05 μm (1.2 m/sec.) to 3.56 mm (1.4 m/sec.)
PIT DEPTH:	APPROX. 0.11 μm
PIT WIDTH:	APPROX. 0.5 μm
OPTICAL SYSTEM	
STANDARD WAVELENGTH:	$\lambda = 780 \text{ nm}$ (7.800A)
FOCAL DEPTH:	$\pm 2 \mu\text{m}$
($\lambda/\text{NA} \leq 1.75 \mu\text{m}$, NA: NUMERICAL APERATURE)	
SIGNAL FORMAT	
NUMBER OF CHANNELS:	2 CHANNELS (4-CHANNEL RECORDING POSSIBLE)
QUANTIZATION:	16-BIT LINEAR QUANTIZATION
QUANTIZING TIMING:	CONCURRENT FOR ALL CHANNELS
SAMPLING FREQUENCY:	44.1 kHz
CHANNEL BIT RATE:	4.3218 Mb/sec.
DATA BIT RATE:	2.0338 Mb/sec.
DATA-TO-CHANNEL BIT RATIO:	8:17
ERROR CORRECTION CODE:	CIRC (WITH 25% REDUNDANCY)
MODULATION SYSTEM:	EFM

FIG. 1
PRIOR ART

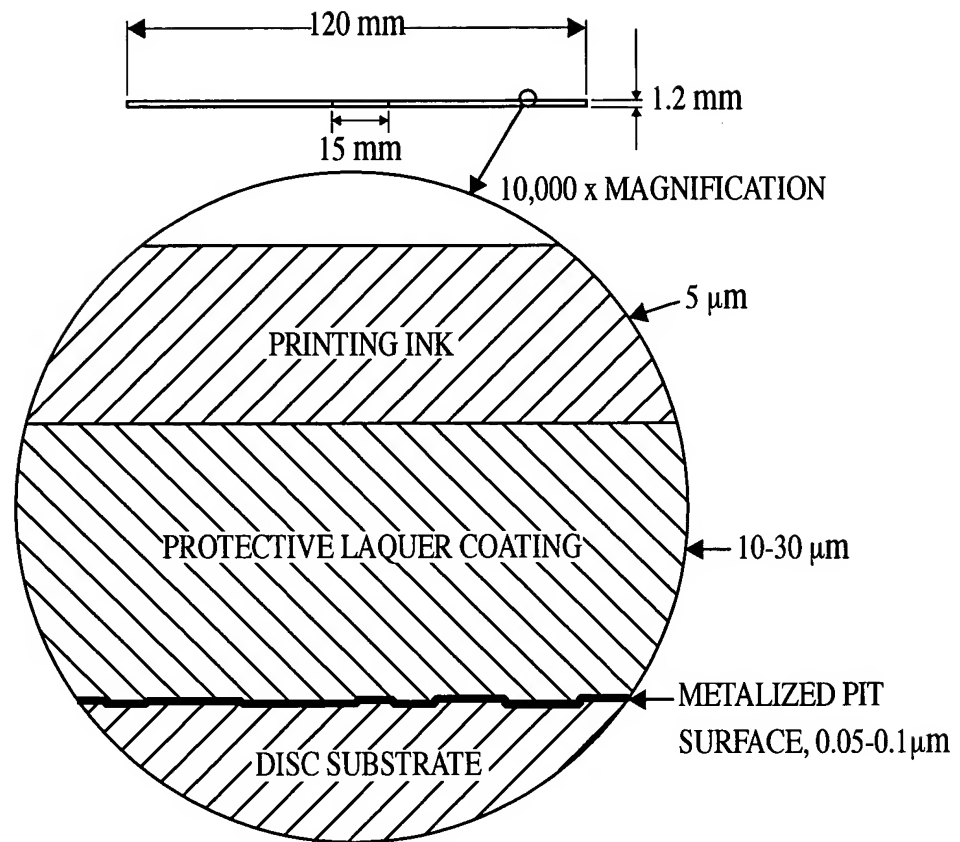


FIG. 2
PRIOR ART

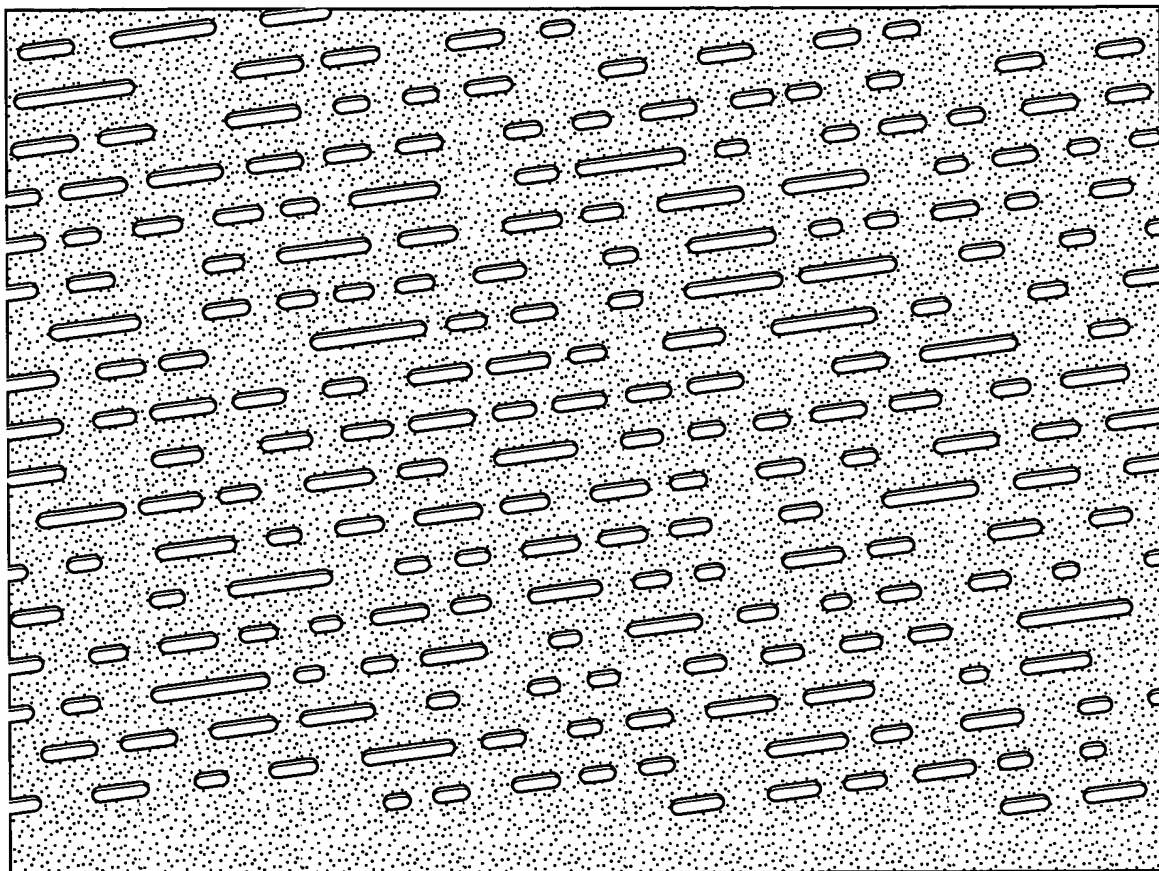


FIG. 3
PRIOR ART

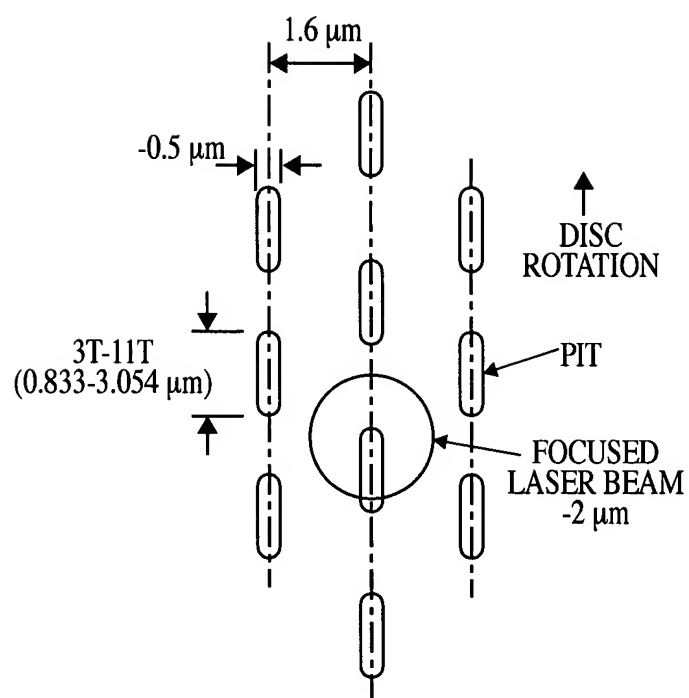


FIG. 4
PRIOR ART

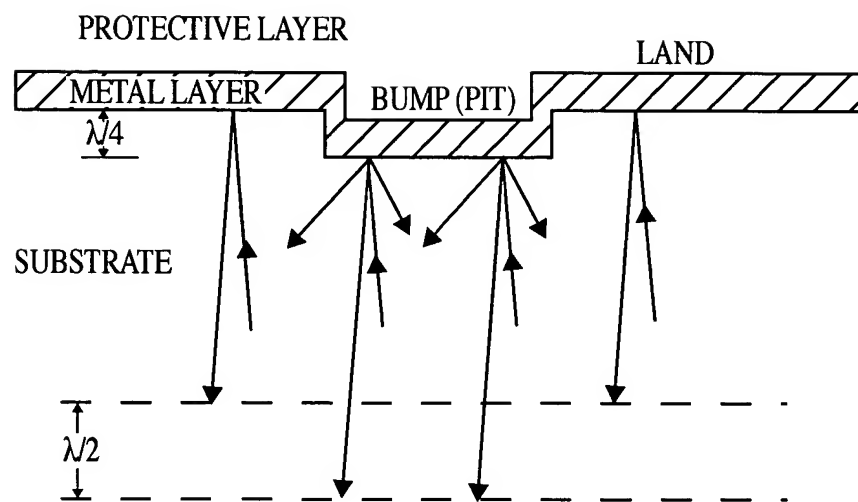


FIG. 5
PRIOR ART

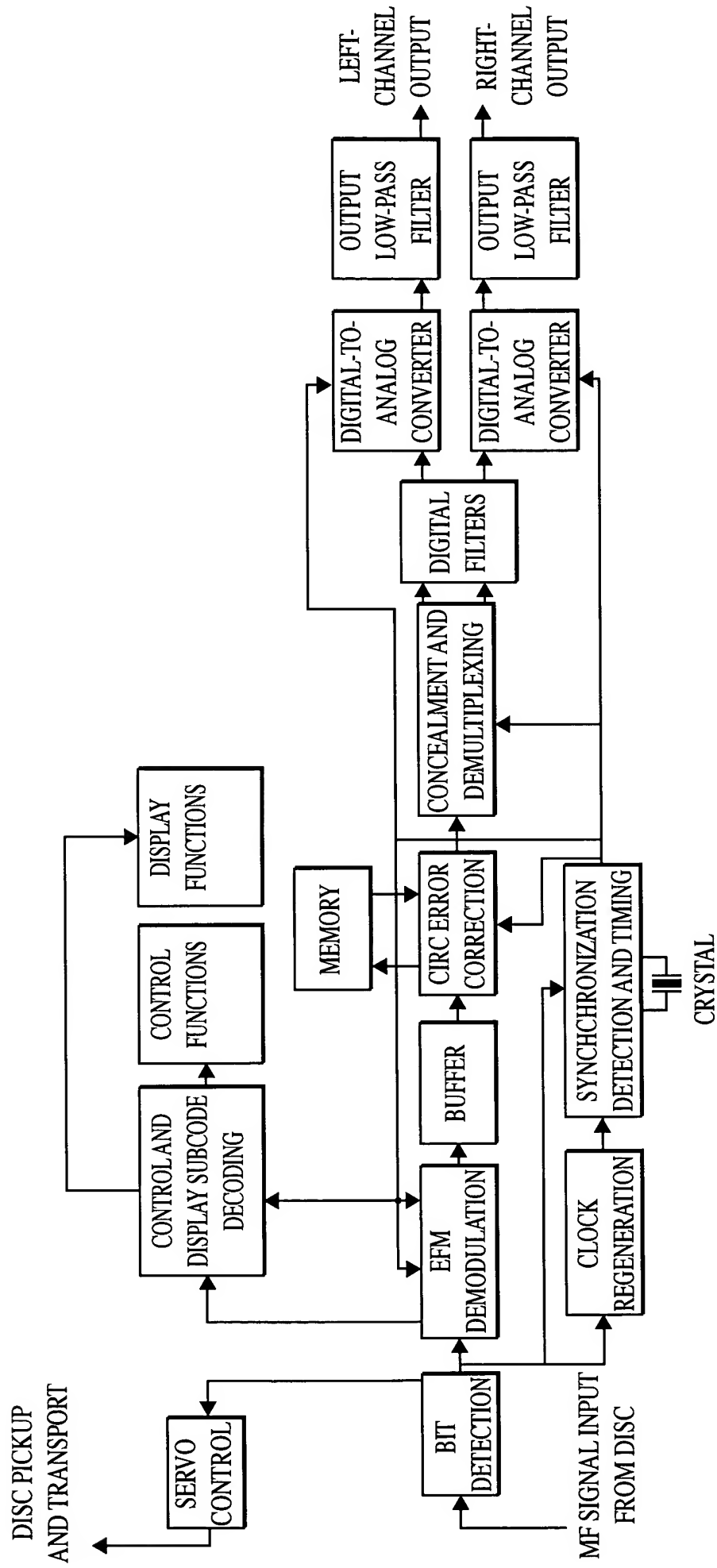


FIG. 6
PRIOR ART

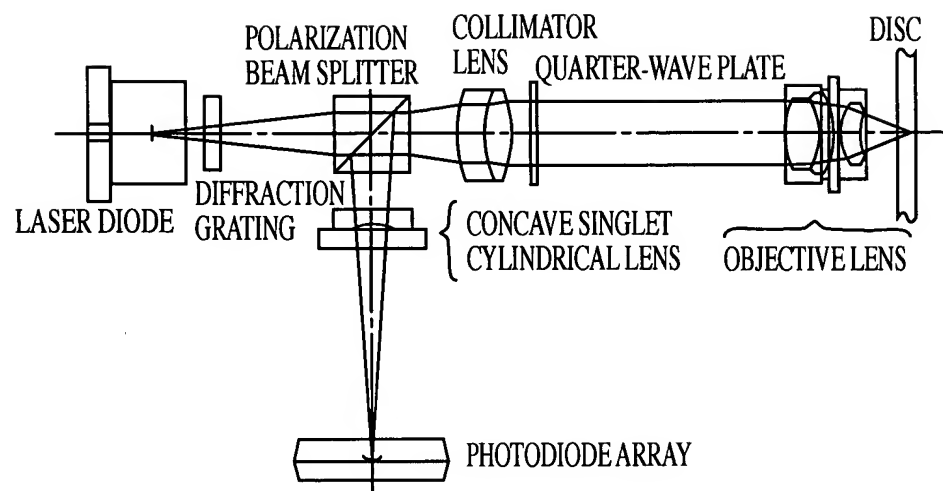


FIG. 7
PRIOR ART

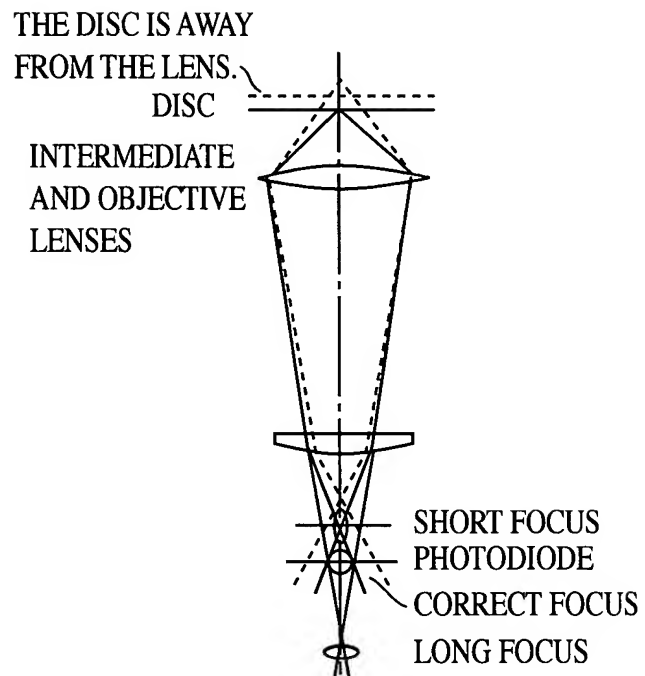


FIG. 8
PRIOR ART

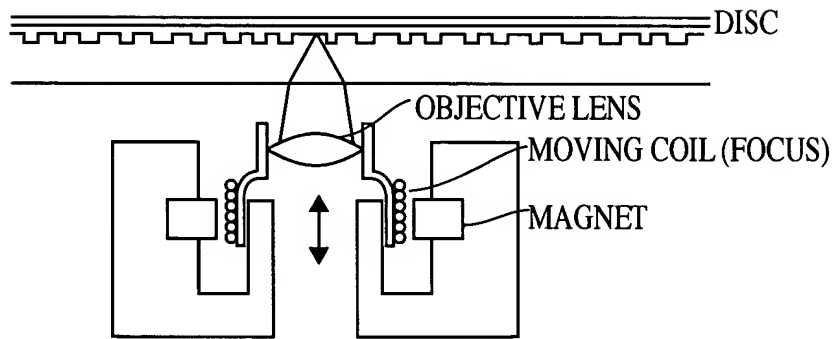


FIG. 9
PRIOR ART

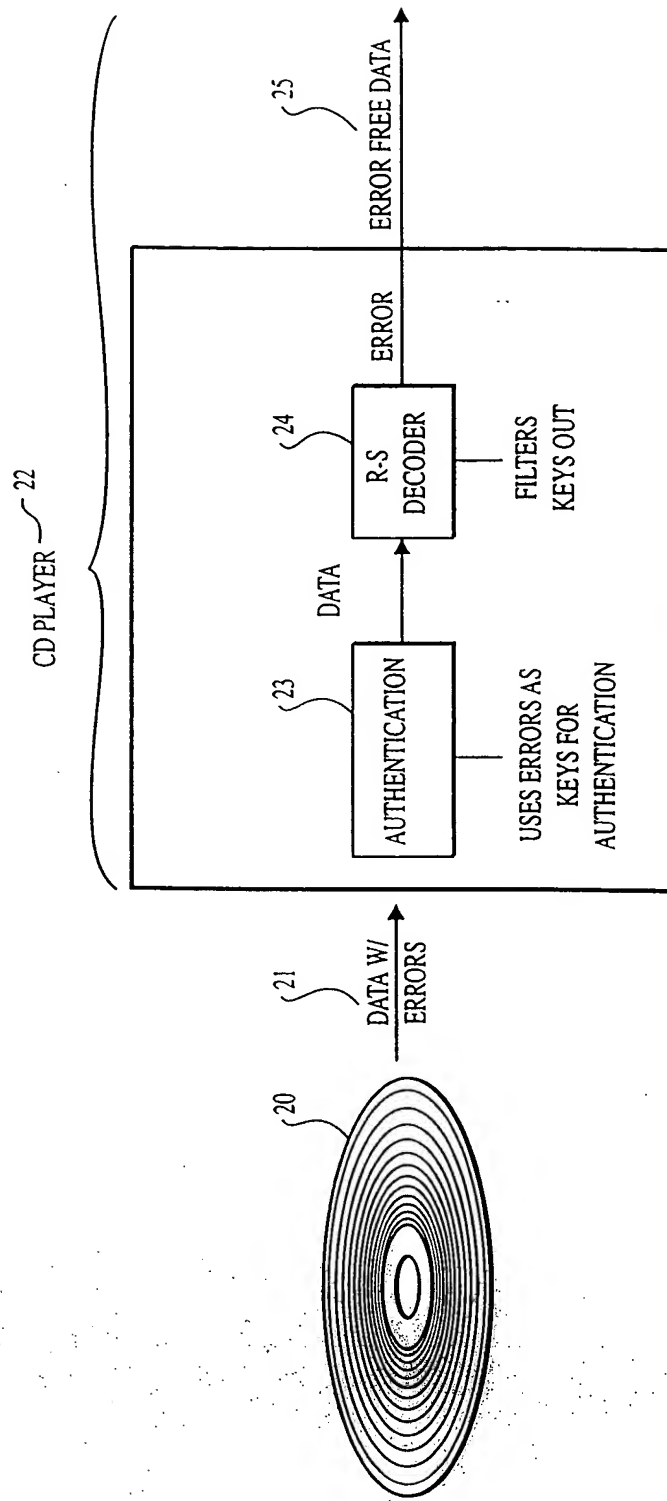


FIG. 10

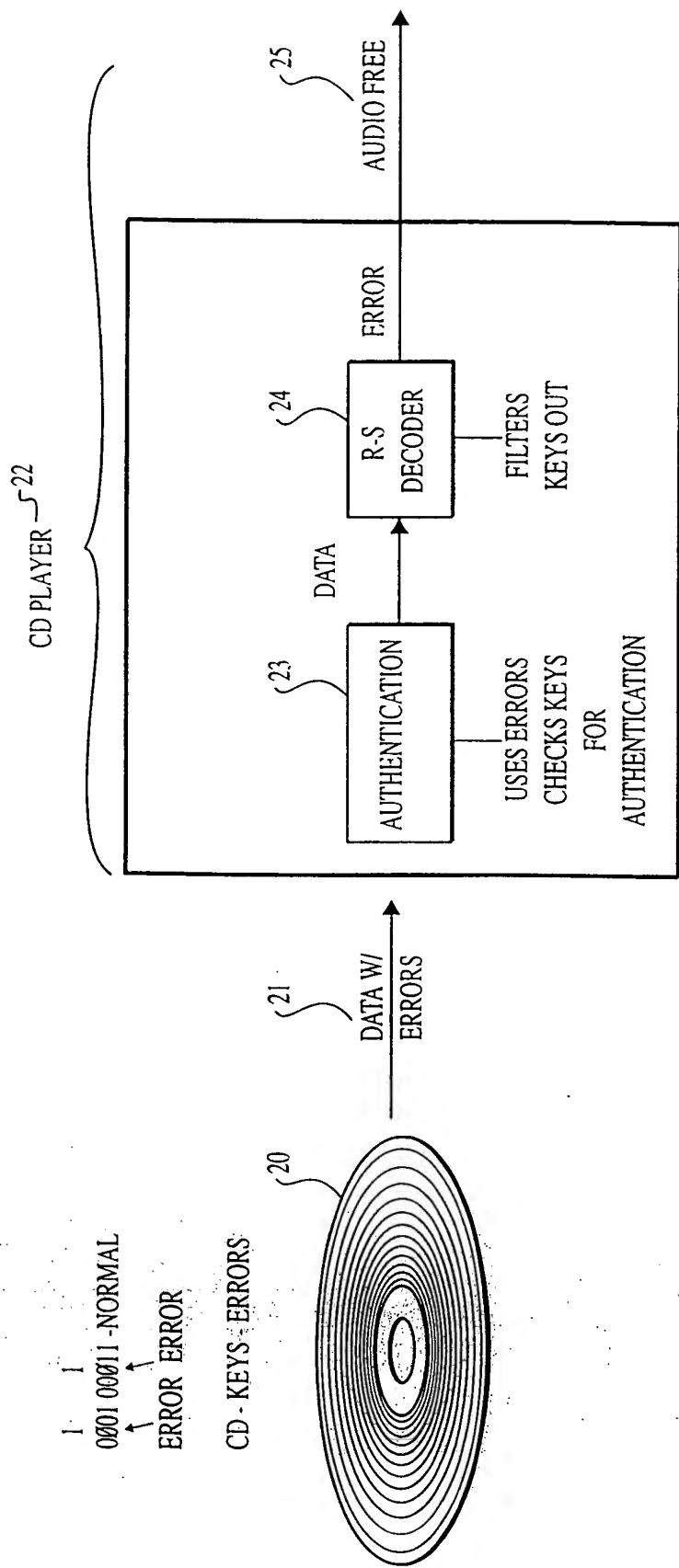


FIG. 11

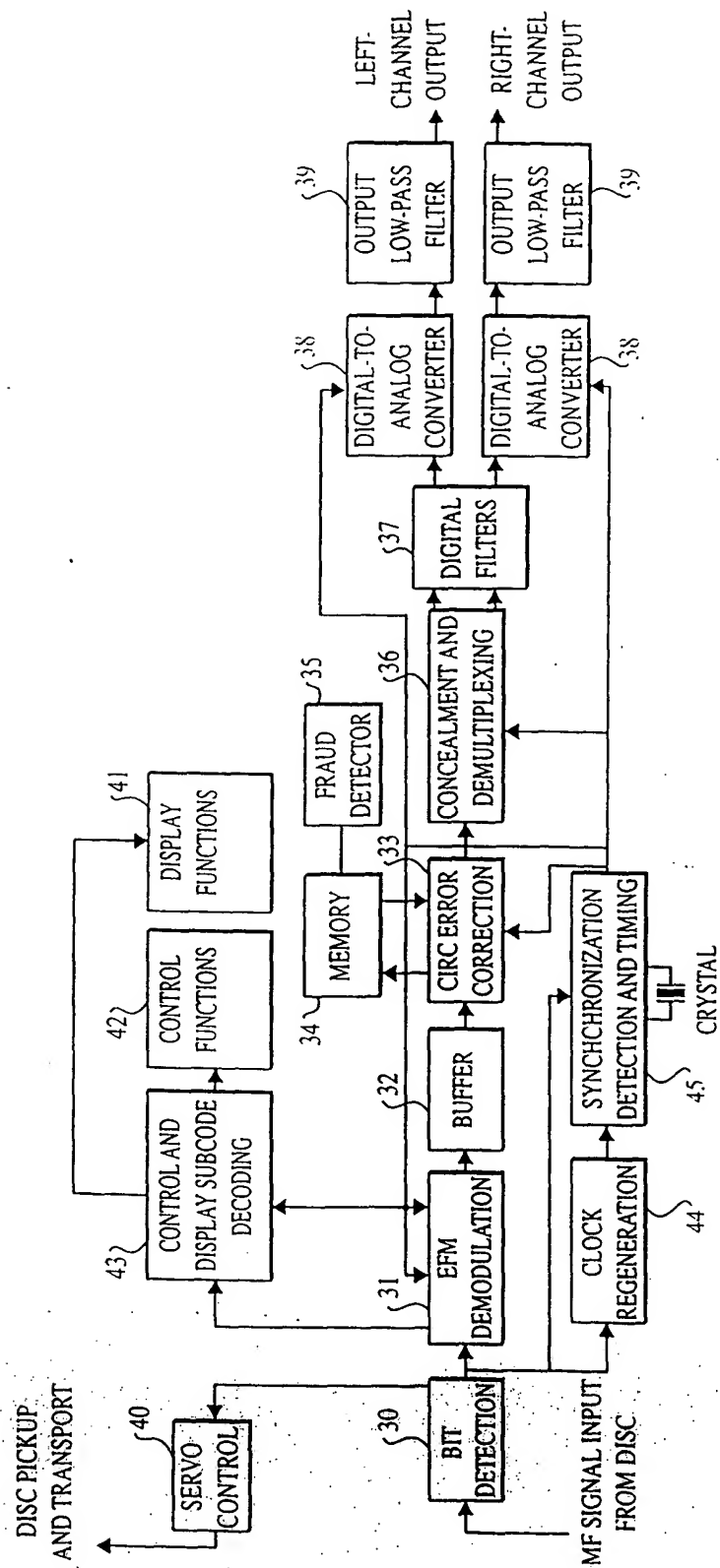


FIG. 12

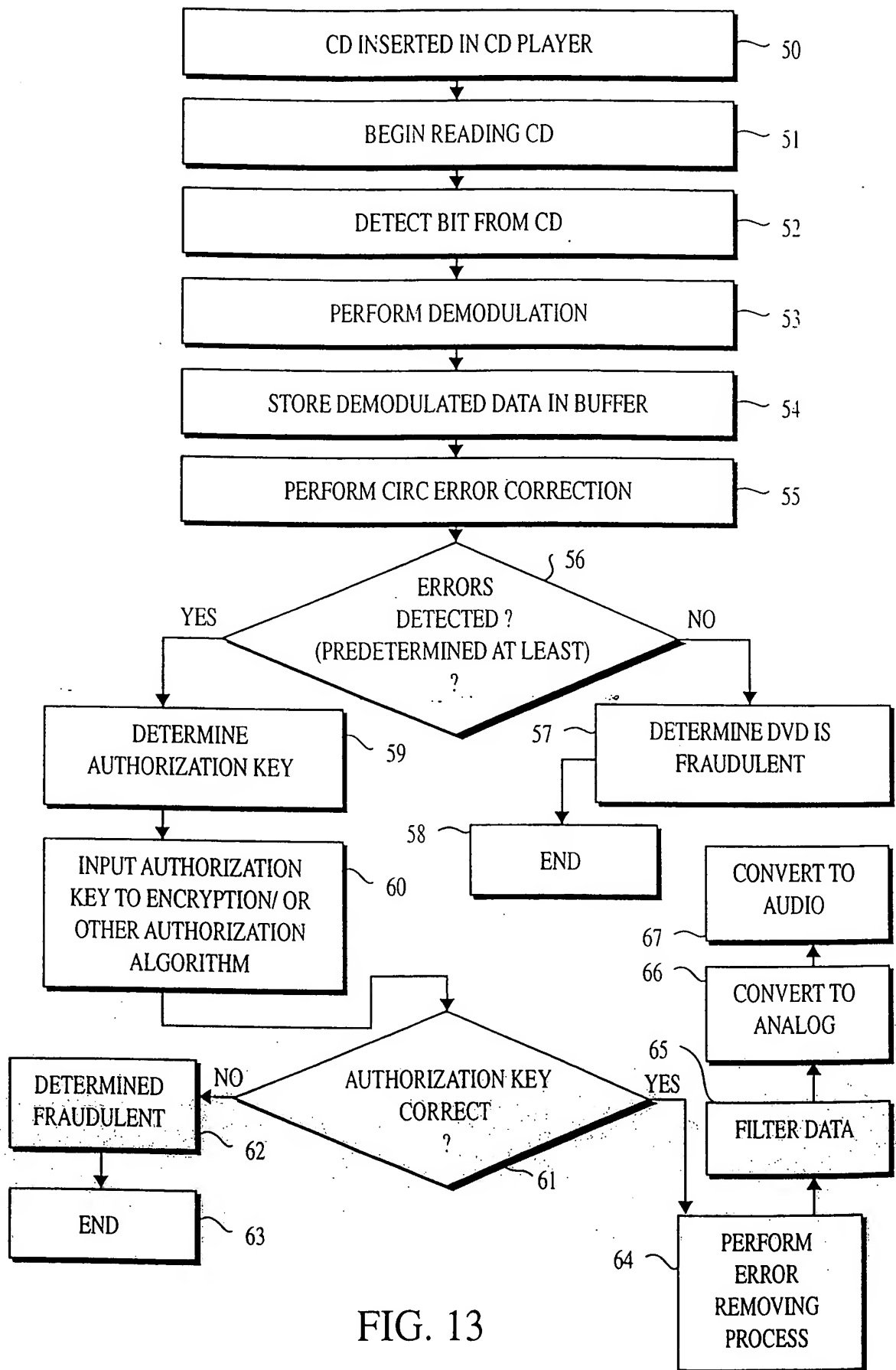


FIG. 13

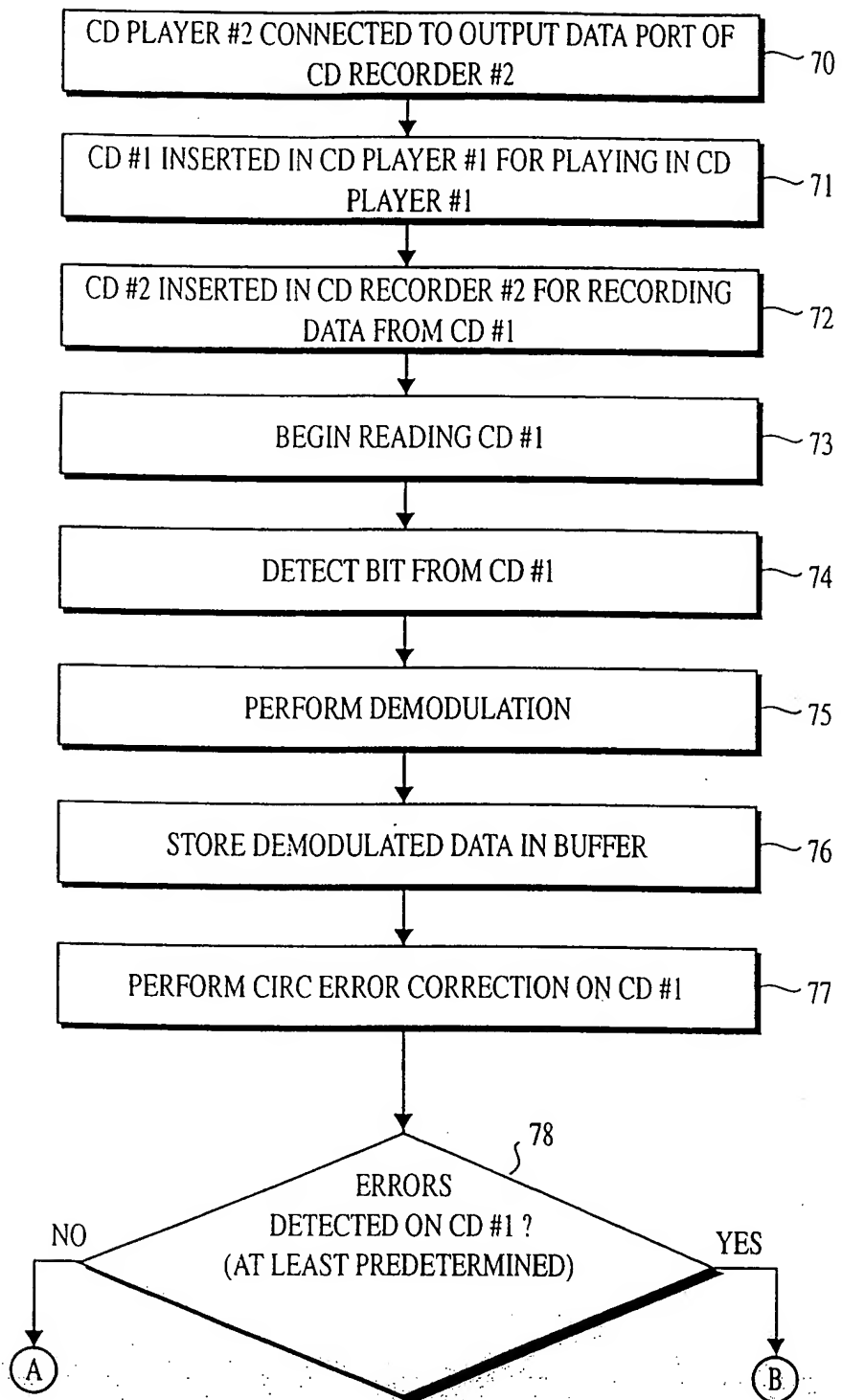


FIG. 14

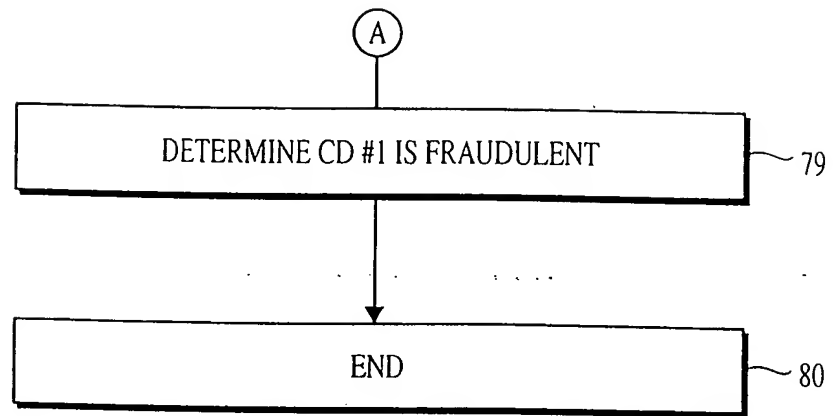


FIG. 15

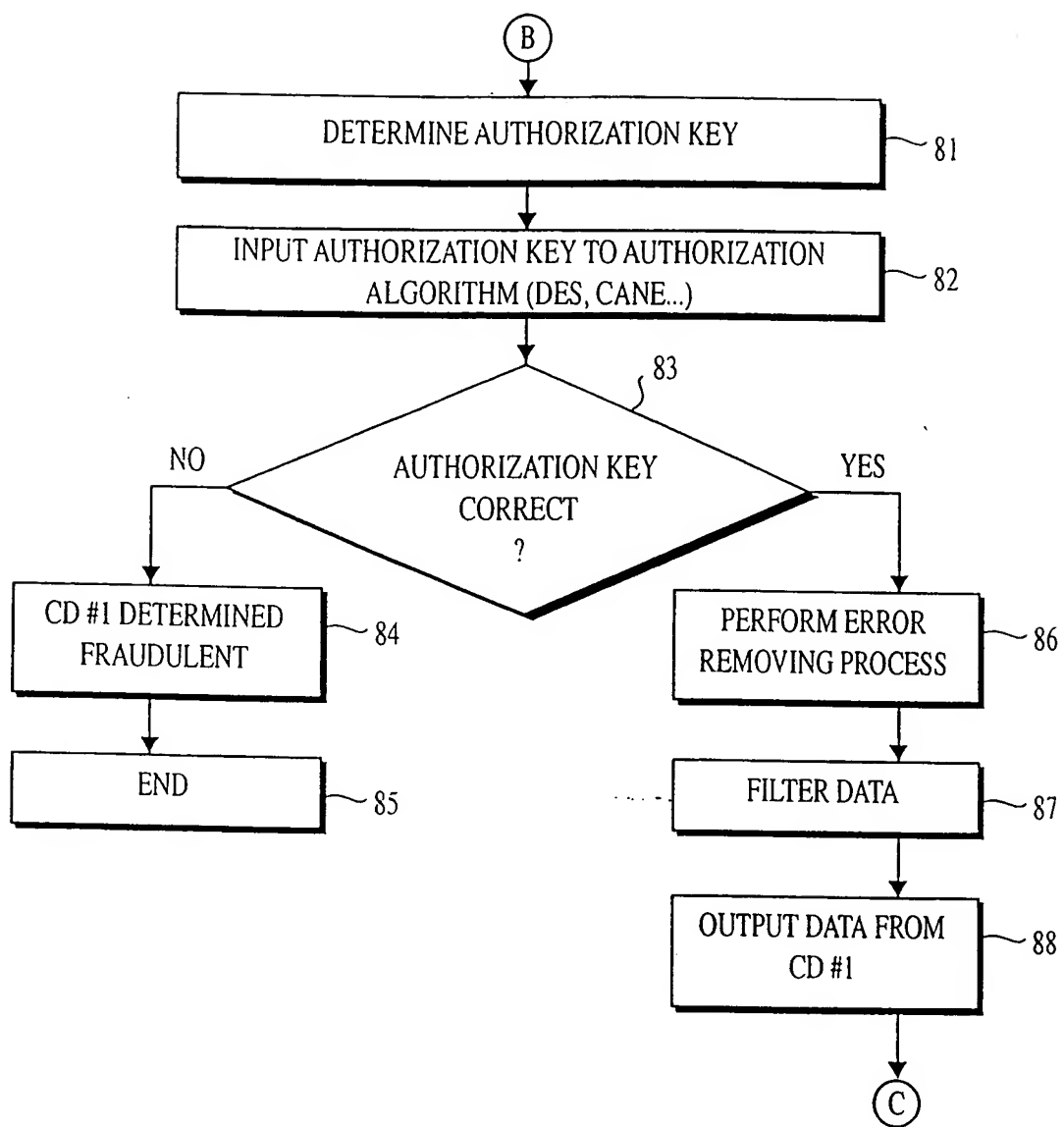


FIG. 16

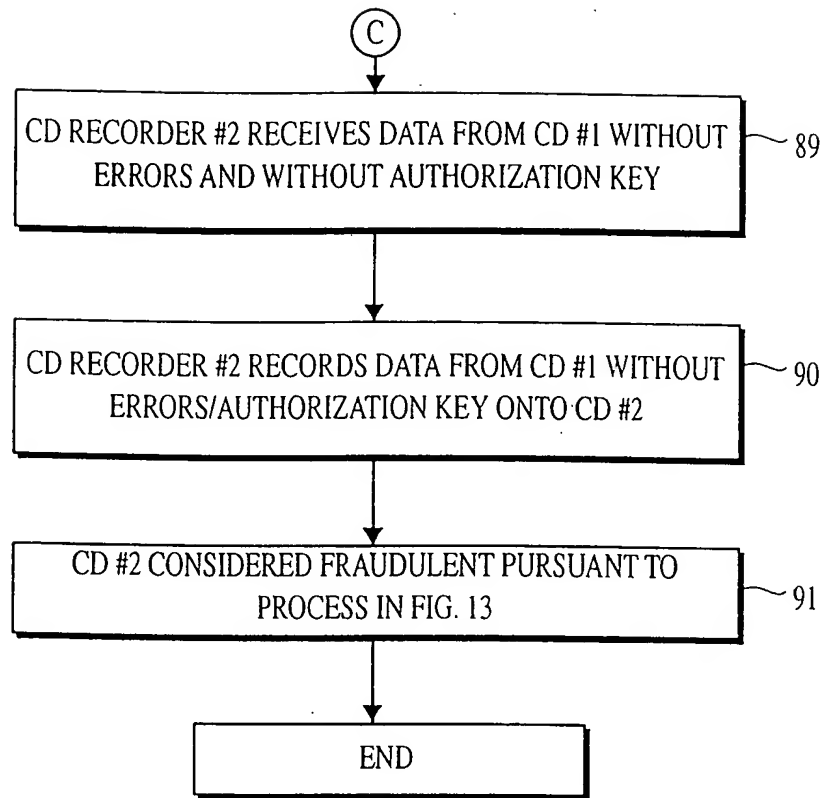


FIG. 17

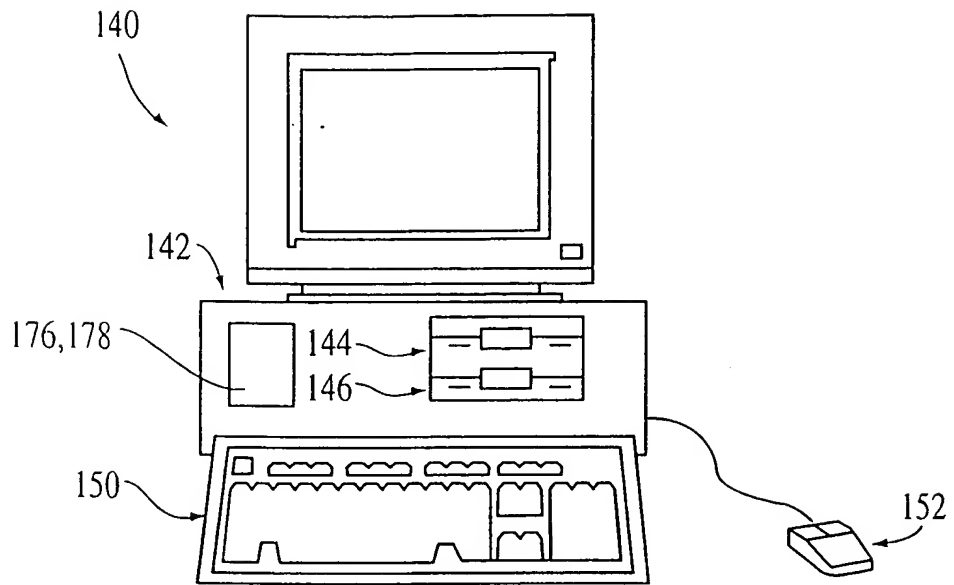


FIG. 18

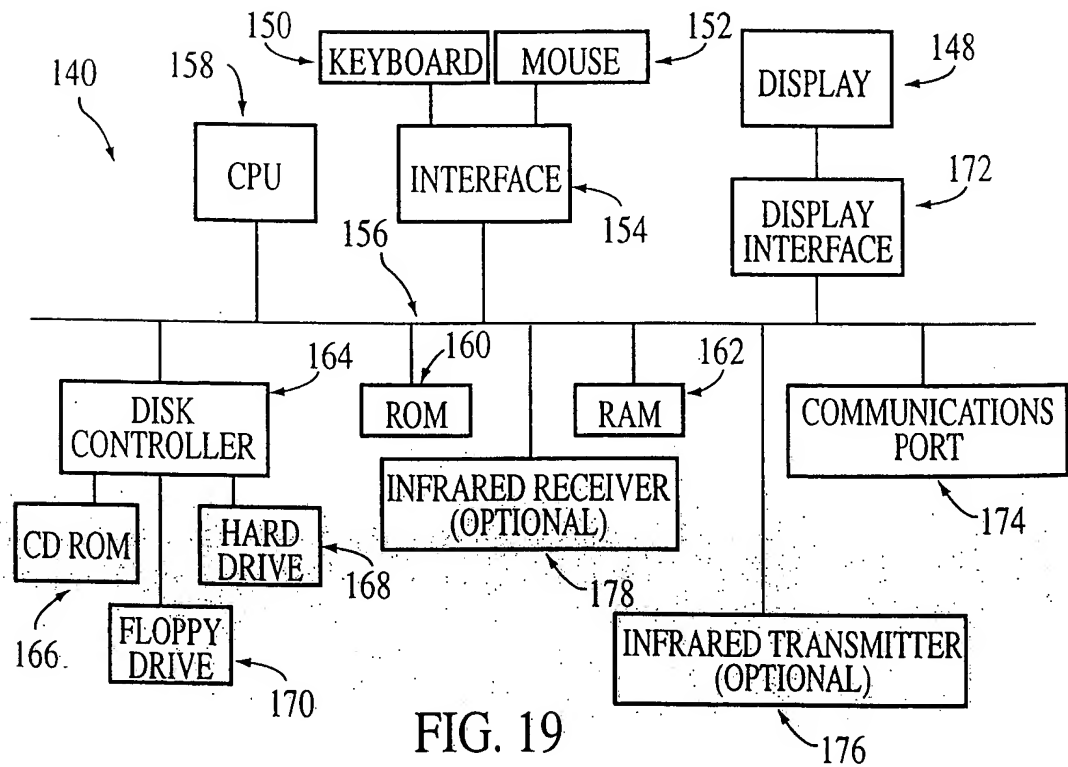


FIG. 19

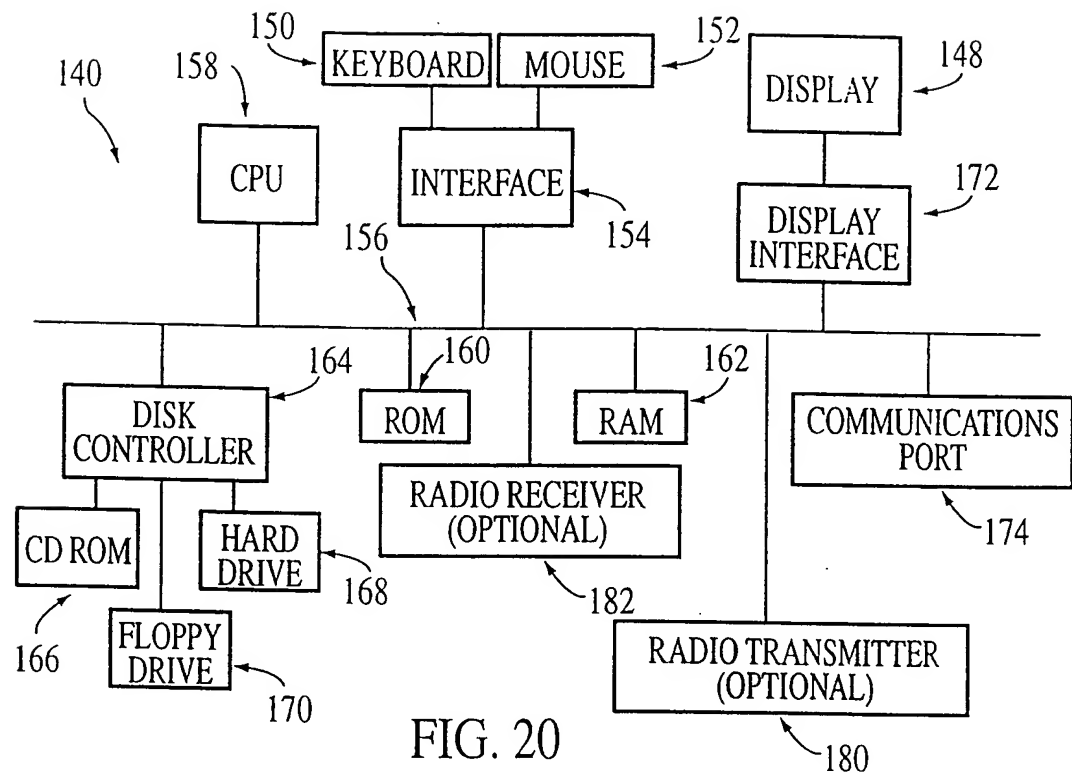


FIG. 20

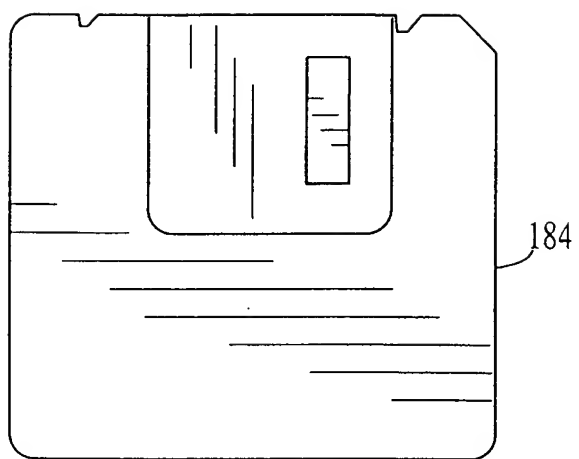


FIG. 21

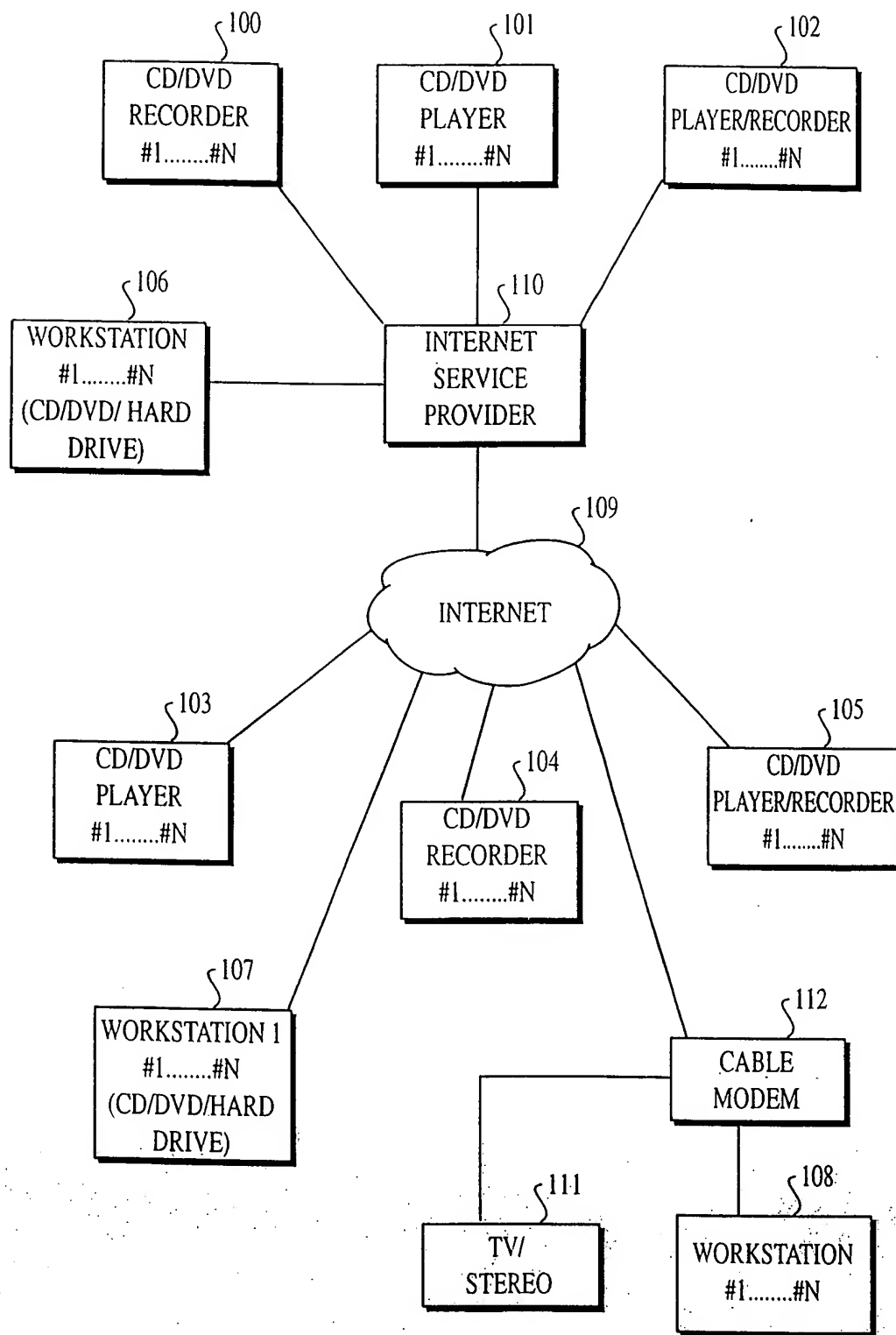


FIG. 22

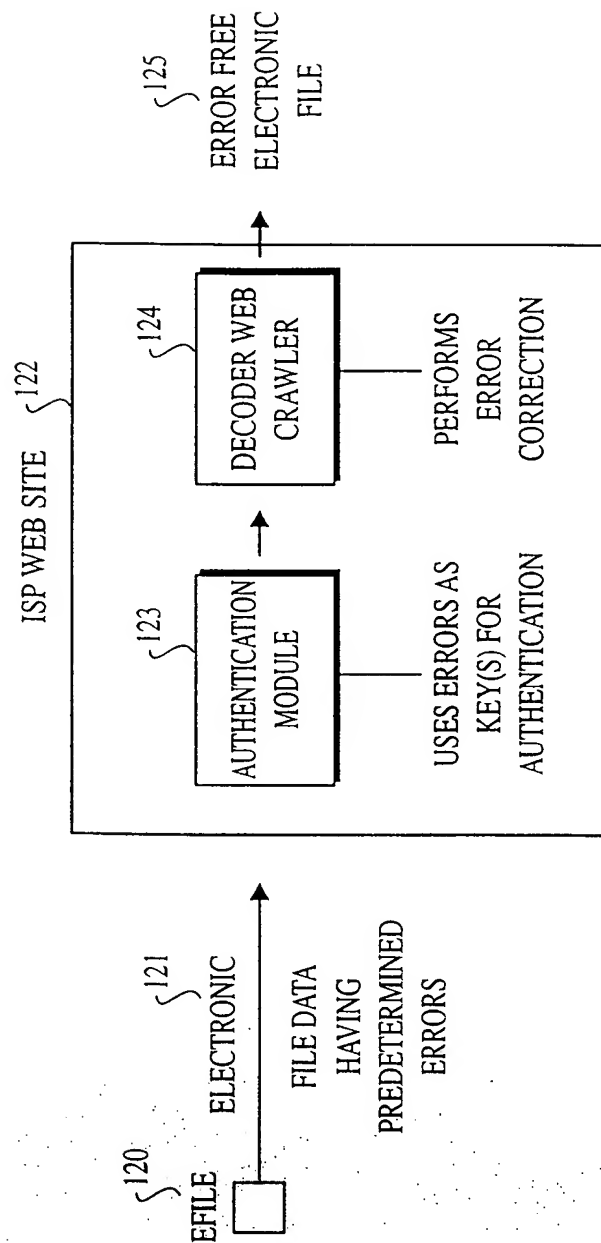


FIG. 23

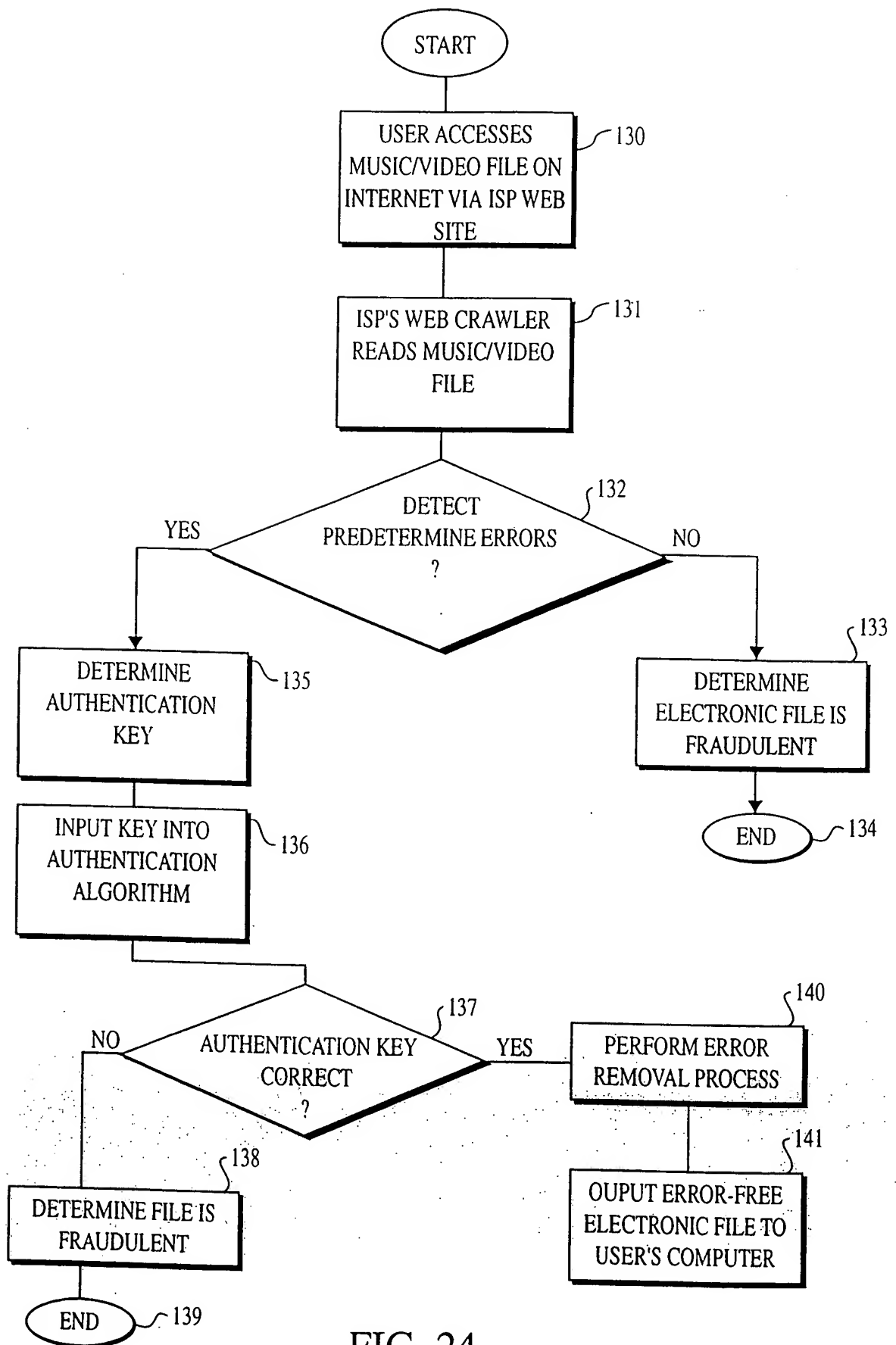


FIG. 24

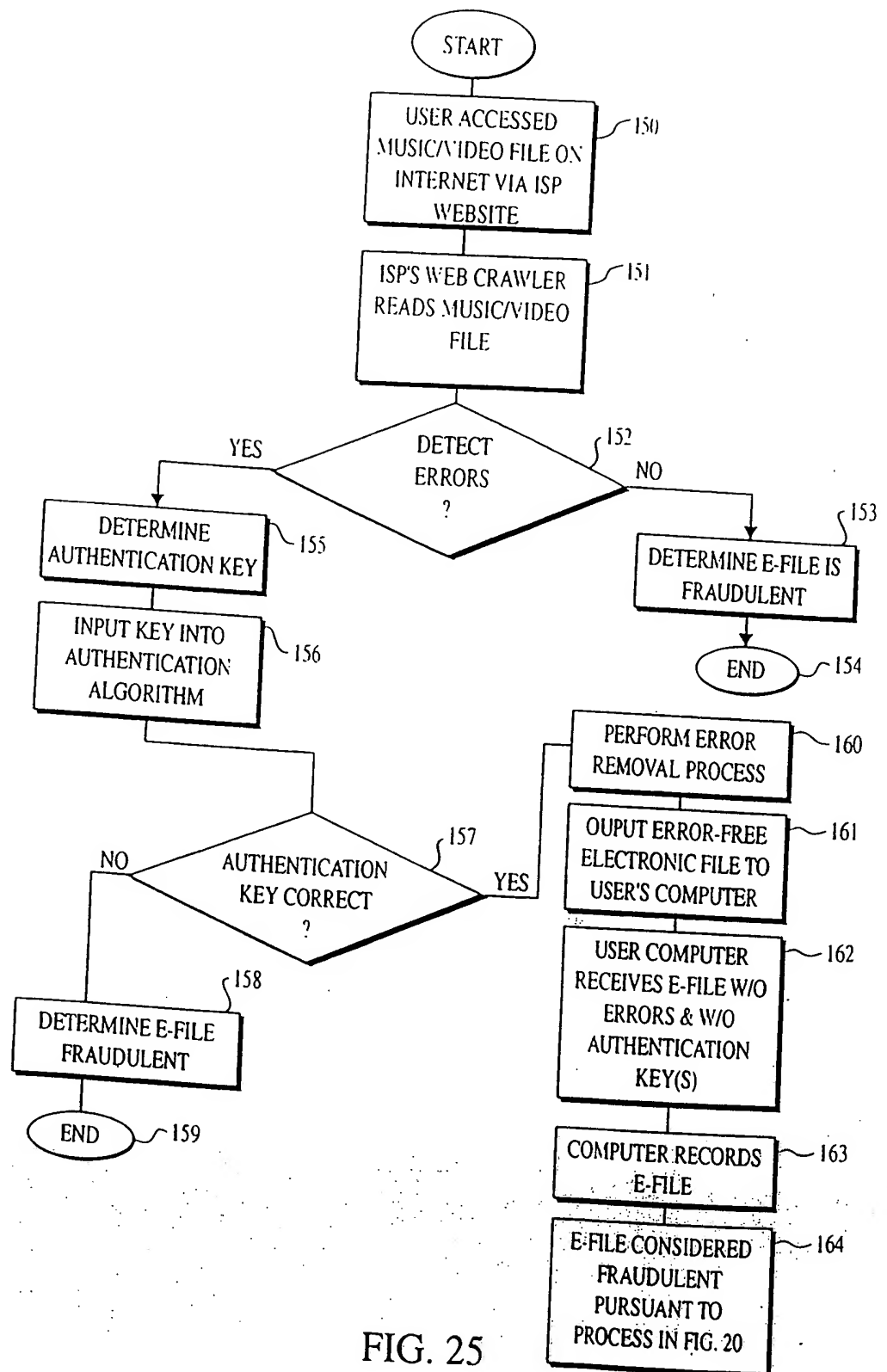


FIG. 25

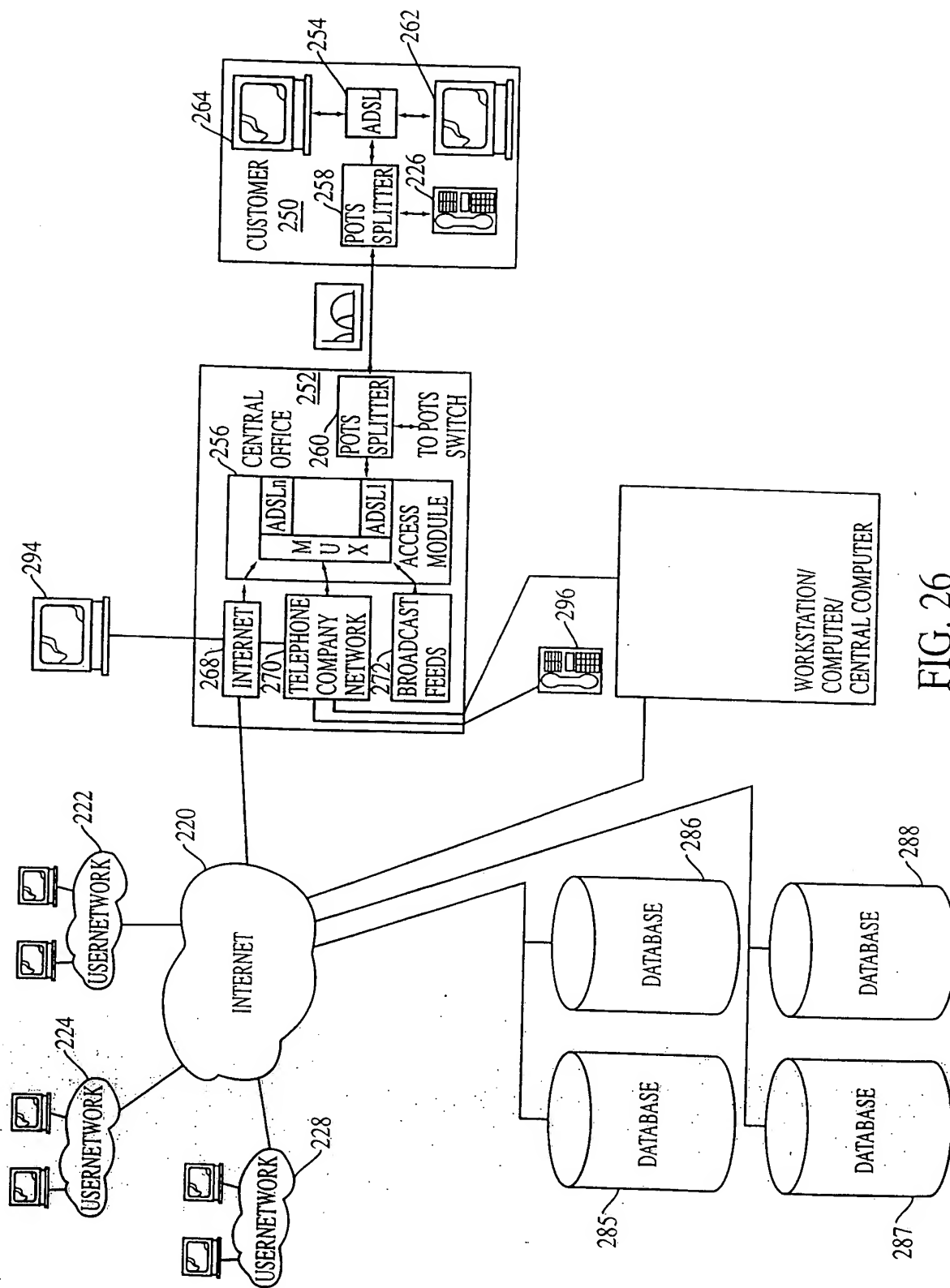


FIG. 26